Listing of Claims:

Claim 9. (Previously Presented) A method to manufacture a component or a semi-finished part for a gas turbine, in particular for an aircraft engine, preferably by casting, wherein a smelting crucible that is manufactured of boron nitride is used.

Claim 10. (Previously Presented) The method according to Claim 9, wherein the component or semi-finished part is subsequently subjected to an inspection for an undesired inclusion.

Claim 11. (Previously Presented) The method according to Claim 10, wherein the component or semi-finished part is examined for the undesired inclusion with an x-ray test.

Claim 12. (Previously Presented) The method according to Claim 10, wherein the component or semi-finished part is examined for the undesired inclusion with a neutron radiography test.

Claim 13. (Previously Presented) The method according to Claim 10, wherein after the inspection the component or semi-finished part is subjected to a further processing, for example a coating process.

Claim 14. (Previously Presented) The method according to Claim 9, wherein the component or semi-finished part is manufactured of a super alloy.

Claim 15. (Previously Presented) The method according to Claim 9, wherein the component or semi-finished part is embodied as an engine disk, which is manufactured of a super alloy, in particular of Udimet 720 LI, by casting plus forging.

Claim 16. (Previously Presented) A method to manufacture a component or a semi-finished part for a gas turbine, in particular for an aircraft engine, of a super alloy by casting, wherein:

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- a) a smelting crucible that is manufactured of boron nitride is used in casting; and
- b) subsequent to casting, the component or semi-finished part is subjected to an inspection for an undesired boron nitride inclusion.
- Claim 17. (Previously Presented) A method to manufacture a component of a gas turbine engine, comprising the step of casting the component in a smelting crucible that is made of boron nitride.
- Claim 18. (Previously Presented) The method according to Claim 17, further comprising the step of inspecting the component for a boron nitride inclusion.
- Claim 19. (Previously Presented) The method according to Claim 18, wherein the step of inspecting includes testing with an x-ray test.
- Claim 20. (Previously Presented) The method according to Claim 18, wherein the step of inspecting includes testing with a neutron radiography test.
- Claim 21. (Previously Presented) The method according to Claim 18, further comprising the step of coating the component after the steps of casting the component and inspecting the component.
- Claim 22. (Previously Presented) The method according to Claim 17, wherein the component is manufactured of a super alloy.
- Claim 23. (Previously Presented) The method according to Claim 22, wherein the component is an engine disk.
- Claim 24. (Previously Presented) The method according to Claim 22, wherein the super alloy is Udimet 720 LI.
- Claim 25. (Previously Presented) The method according to Claim 17, wherein the step of casting includes the step of forging.